

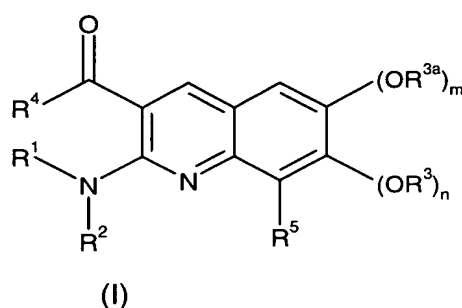
Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

In the Claims:

What is claimed is:

Claim 1(Original): A compound of Formula (I):



wherein:

R^1 is -H or C_1 - C_6 alkyl;

R^2 is the group defined by $-(Q)_q-(Q^1)_r-(Q^2)$,

wherein:

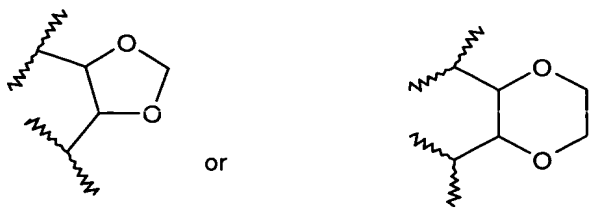
Q is CH_2 and q is 0, 1, 2, 3, or 4;

Q^1 is O, NH, or $C(H)(R')$ where R' is -OH; and r is 0 or 1, and

Q^2 is -H, C_1 - C_6 alkyl, aryl, heterocyclic, C_3 - C_7 cycloalkyl, $-C(O)OR^b$, NR^bR^b , or heteroaryl; where Q^2 is optionally substituted with at least one R^a group;

R^3 and R^{3a} are independently selected from -H, C_1 - C_6 alkyl, or C_1 - C_6 hydroxyalkyl, m is 0 or 1, and n is 0 or 1, or

m is 1 and n is 1 and R^3 and R^{3a} together with the atoms to which they are attached form the optionally substituted fused ring



R^4 is $-\text{OH}$, $-\text{NHS}(\text{O})_2R^c$, or $-\text{N}(R^b)R$;

R^5 is $-\text{H}$ or halo;

R is $-\text{H}$, aryl, $-\text{OR}^b$;

R^a is independently selected from $\text{C}_1\text{-C}_6$ alkyl, halo, aryl, $-\text{C}(\text{O})\text{OR}^b$, $-\text{C}(\text{O})R^d$, $-\text{OH}$, $-\text{NR}^bR^b$, $-\text{N}(\text{H})\text{C}(\text{O})\text{OR}^b$, $-\text{N}(\text{H})\text{C}(\text{O})\text{N}(\text{H})R^e$, $-\text{N}(\text{H})\text{S}(\text{O})_2R^c$, $-\text{N}(\text{H})\text{S}(\text{O})_2\text{NR}^bR^b$, $\text{C}_1\text{-C}_6$ alkoxy, $\text{C}_1\text{-C}_6$ haloalkyl, $-\text{NO}_2$, $-\text{CN}$, $-\text{SF}_5$, $=\text{O}$, $-\text{S}(\text{O})_2\text{NR}^bR^b$, or aryloxy;

R^b is $-\text{H}$, $\text{C}_1\text{-C}_6$ alkyl, or $\text{C}_2\text{-C}_4$ alkenyl;

R^c is aryl or $\text{C}_1\text{-C}_6$ alkyl;

R^d is $\text{C}_1\text{-C}_6$ alkyl, aryl, NR^bR^b , or $\text{N}(\text{H})(\text{CH}_2)_s\text{NR}^bR^b$,

R^e is $-\text{H}$, aryl or $\text{C}_1\text{-C}_6$ alkyl;

s is 1, 2, 3, or 4;

or a pharmaceutically acceptable salt or solvate thereof.

Claim 2 (Original): A compound as claimed in claim 1, selected from the group consisting of:

2-(3-tert-butoxycarbonylamino-propylamino)-7-methoxy-quinoline-3-carboxylic acid;

2-(3-amino-propylamino)-7-methoxy-quinoline-3-carboxylic acid;

2-[2-(4-tert-butoxycarbonyl-piperazin-1-yl)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;

2-(4-tert-butoxycarbonylamino-butyl amino)-7-methoxy-quinoline-3-carboxylic acid;

2-(2-tert-butoxycarbonylamino-ethyl

amino)-7-methoxy-quinoline-3-carboxylic acid;
2-(3-dimethylamino-propylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-dimethylamino-ethylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-amino-ethylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(4-amino-butylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-benzylamino-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-phenethylamino-quinoline-3-carboxylic acid;
7-methoxy-2-(2-pyridin-4-yl-ethylamino)-quinoline-3-carboxylic acid;
2-(2-dimethylamino-ethylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(indan-2-ylamino)-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-(3-morpholin-4-yl-propylamino)-quinoline-3-carboxylic acid;
2-(3-diethylamino-propylamino)-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-[3-(2-oxo-pyrrolidin-1-yl)-propylamino]-quinoline-3-carboxylic acid;
2-(4-tert-butyl-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-[2-(2-oxo-imidazolidin-1-yl)-ethylamino]-quinoline-3-carboxylic acid;
2-(4-dimethylamino-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-(2-morpholin-4-yl-ethylamino)-quinoline-3-carboxylic acid;
7-methoxy-2-[2-(4-phenoxy-phenyl)-ethylamino]-quinoline-3-carboxylic acid;
2-cyclohexylamino-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-[(tetrahydro-furan-2-ylmethyl)-amino]-quinoline-3-carboxylic acid;
2-(2-hydroxy-ethylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-hydroxy-2-phenyl-ethylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-[2-(3-bromo-4-methoxy-phenyl)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-(4-methyl-benzylamino)-quinoline-3-carboxylic acid;
7-methoxy-2-(2-pyridin-3-yl-ethylamino)-quinoline-3-carboxylic acid;
2-[2-(3,4-dimethoxy-phenyl)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;
2-benzylamino-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-(3-morpholin-4-yl-propylamino)-quinoline-3-carboxylic acid; and
7-methoxy-2-piperidin-1-yl-quinoline-3-carboxylic acid;

7-methoxy-2-(3-pentafluorosulfanyl-phenylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-(5,6,7,8-tetrahydro-naphthalen-1-ylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-(naphthalen-1-ylamino)-quinoline-3-carboxylic acid;
 2-[4-(2-diethylamino-ethylcarbamoyl)-phenylamino]-7-methoxy-quinoline-3-carboxylic acid;
 2-(3-tert-butoxycarbonylamino-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
 2-(4-tert-butoxycarbonylamino-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
 2-(4-amino-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-(2,4,6-trimethoxy-benzylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-[3-(3-phenyl-ureido)-benzylamino]-quinoline-3-carboxylic acid;
 7-methoxy-2-[4-(3-phenyl-ureido)-benzylamino]-quinoline-3-carboxylic acid;
 7-methoxy-2-[4-(toluene-4-sulfonylamino)-benzylamino]-quinoline-3-carboxylic acid;
 7-methoxy-2-(3-ureido-benzylamino)-quinoline-3-carboxylic acid;
 2-(dimethylaminosulfonylamino-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-[2-(4-methoxy-phenyl)-ethylamino]-quinoline-3-carboxylic acid;
 7-methoxy-2-[2-(2-methoxy-phenyl)-ethylamino]-quinoline-3-carboxylic acid;
 7-methoxy-2-(4-methoxy-benzylamino)-quinoline-3-carboxylic acid;
 2-[(benzo[1,3]dioxol-5-ylmethyl)-amino]-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-(3-trifluoromethyl-benzylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-[2-(4-nitro-phenyl)-ethylamino]-quinoline-3-carboxylic acid;
 2-(3-imidazol-1-yl-propylamino)-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-(4-sulfamoyl-benzylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-(3-methoxy-benzylamino)-quinoline-3-carboxylic acid;
 2-(2-chloro-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
 2-[2-(3-fluoro-phenyl)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;
 2-[2-(4-amino-phenyl)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;
 2-(3-amino-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;

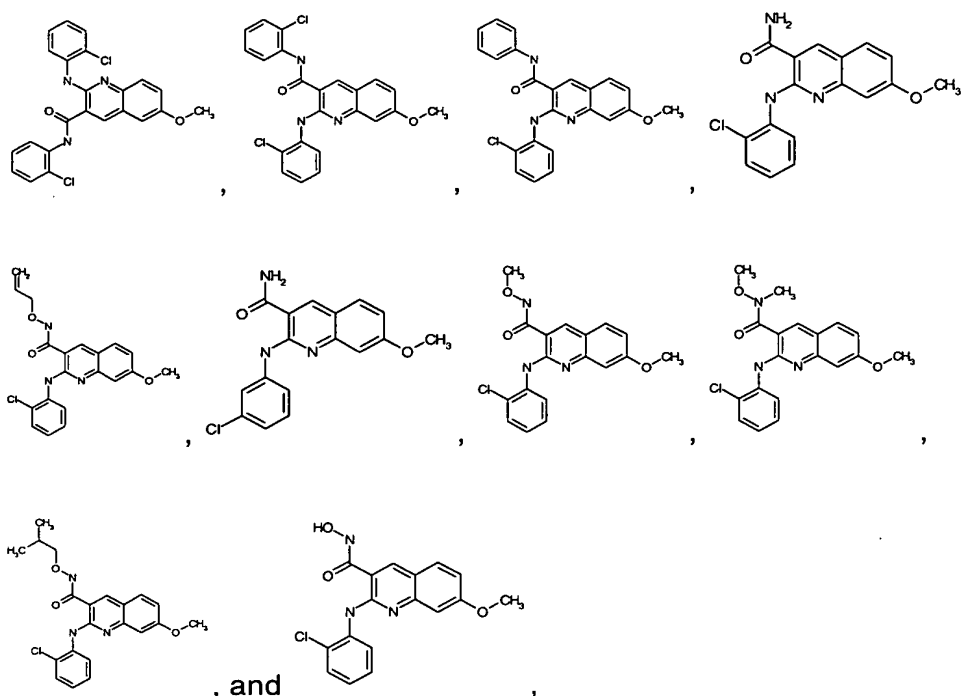
2-(2-benzo[1,3]dioxol-5-yl-ethylamino)-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-[2-(3-methoxy-phenyl)-ethylamino]-quinoline-3-carboxylic acid;
 2-[2-(3-chloro-phenyl)-ethylamino]-
 7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-[2-(4-sulfamoyl-phenyl)-ethylamino]-quinoline-3-carboxylic acid;
 2-[2-(2-chloro-phenyl)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;
 2-[2-(4-hydroxy-phenyl)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;
 2-(3-bromo-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
 2-(3-chloro-benzylamino)-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-(2-piperazin-1-yl-ethylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-[2-(1-methyl-pyrrolidin-2-yl)-ethylamino]-quinoline-3-carboxylic
 acid;
 7-methoxy-2-piperidin-1-yl-quinoline-3-carboxylic acid;
 2-(4-chloro-benzylamino)-7-methoxy-
 quinoline-3-carboxylic acid;
 2-(4-hydroxy-piperidin-1-yl)-7-methoxy-quinoline-3-carboxylic acid;
 2-(tert-butoxycarbonylmethyl-amino)
 -7-methoxy-quinoline-3-carboxylic acid;
 2-[2-(2-hydroxy-ethoxy)-ethylamino]-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-(3-methoxy-propylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-(2-methoxy-ethylamino)-quinoline-3-carboxylic acid;
 2-(3-hydroxy-propylamino)-7-methoxy-quinoline-3-carboxylic acid;
 2-(2-carboxy-ethylamino)-7-methoxy-
 quinoline-3-carboxylic acid;
 7-methoxy-2-propylamino-quinoline-3-carboxylic acid;
 2-(carboxymethyl-amino)-7-methoxy-quinoline-3-carboxylic acid;
 3-(2-chloro-phenylamino)-6-methoxy-naphthalene-2-carboxylic acid;
 2-(2-chloro-phenylamino)-7-methoxy-quinoline-3-carboxylic acid phenylamide;
 2-(2-chloro-phenylamino)-7-hydroxy-quinoline-3-carboxylic acid phenylamide;
 2-(2-chloro-phenylamino)-7-hydroxy-quinoline-3-carboxylic acid;
 2-(2-chloro-phenylamino)-7-(2-hydroxy-ethoxy)-quinoline-3-carboxylic acid;
 2-(3,4-dichlorophenylamino)-7-methoxy-quinoline-3-carboxylic acid;
 2-(3-biphenylamino)-7-methoxy-quinoline-3-carboxylic acid;
 7-methoxy-2-(phenylamino)-quinoline-3-carboxylic acid;
 7-methoxy-2-(methyl-3-methylphenylamino)-quinoline-3-carboxylic acid;

2-(cyclohexylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(3-chlorophenylamino)-6,7-dimethoxy-quinoline-3-carboxylic acid;
2-(3-chlorophenylamino)-6,7-methylenedioxy-quinoline-3-carboxylic acid;
2-(3-chlorophenylamino)-7-hydroxy-quinoline-3-carboxylic acid;
8-bromo-2-(3-chlorophenylamino)-7-hydroxy-quinoline-3-carboxylic acid;
2-(3-chlorophenylamino)-7-methoxy-quinoline-3-carboxamide
phenylsulphonamide;
2-(3-chlorophenylamino)-7-methoxy-quinoline-3-carboxamide 2-nitro-
phenylsulphonamide;
2-(3-chlorophenylamino)-7-methoxy-quinoline-3-carboxamide
methylsulphonamide;
8-bromo-2-(3-chlorophenylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(3-acetophenylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-benzophenone-yl-amino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-fluoro-5-methylphenylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-cyanophenylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-chloro-6-methylphenylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(4-carboxybenzylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(3-chloro-6-methoxyphenylamino)-7-methoxy-quinoline-3-carboxylic acid;
2-(2-ethylphenylamino)-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-(4-nitrophenylamino)-quinoline-3-carboxylic acid;
2-(4-carboxamidophenylamino)-7-methoxy-quinoline-3-carboxylic acid;
7-methoxy-2-(4-hydroxyphenethylamino)-quinoline-3-carboxylic acid; and
7-methoxy-2-(piperidin-4-ol)-quinoline-3-carboxylic acid;

or a salt, solvate, or physiologically functional derivative thereof.

Claim 3 (Original):
the group consisting of:

A compound as claimed in claim 1, selected from



or a salt, solvate, or physiologically functional derivative thereof.

Claim 4 (Currently Amended):

Claim 4 (Currently Amended): A pharmaceutical composition, comprising: a therapeutically effective amount of a compound as claimed in ~~any one of claims~~ claim 1 to 3, or a salt, solvate, or a physiologically functional derivative thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

Claim 5 (Currently Amended):

Claim 5 (Currently Amended): A method of treating a disorder in a mammal, said disorder being mediated by inappropriate YAK3 activity, comprising: administering to said mammal a therapeutically effective amount of a compound as claimed in ~~any one of claims~~ claim 1 to 3, or a salt, solvate, or a physiologically functional derivative thereof.

Claim 6-7 (Cancelled):

Claim 8 (New): A compound as claimed in claim 1, wherein R^1 is $-H$ or methyl.

Claim 9 (New): A compound as claimed in claim 1, wherein R^1 is $-H$.

Claim 10 (New): A compound as claimed in claim 1, wherein q and r are 0, and R^2 is $-(Q^2)$.

Claim 11 (New): A compound as claimed in claim 1, wherein q is 1, 2, 3, or 4, r is 0 and R^2 is $-(Q)_q-(Q^2)$.

Claim 12 (New): A compound as claimed in claim 1, wherein q is 0, r is 1, and R^2 is $-(Q^1)-(Q^2)$.

Claim 13 (New): A compound as claimed in claim 1, wherein q is 1, 2, 3, or 4 and r are 1, and R^2 is $-(Q)_q-(Q^1)-(Q^2)$.

Claim 14 (New): A compound as claimed in claim 1, wherein q is 1, 2, 3, or 4 and Q is CH_2 .

Claim 15 (New): A compound as claimed in claim 1, wherein q is 1, 2, or 3 and Q is CH_2 .

Claim 16 (New): A compound as claimed in claim 1, wherein q is 1 or 2 and Q is CH_2 .

Claim 17 (New): A compound as claimed in claim 1, wherein r is 0 or 1 and Q^1 is NH or O .

Claim 18 (New): A compound as claimed in claim 1, wherein r is 0 or 1 and Q^1 is NH .

Claim 19 (New) A compound as claimed in claim 1, wherein r is 0.

Claim 20 (New): A compound as claimed in claim 1, wherein Q^2 is C_1 - C_6 alkyl, aryl, heterocyclic, C_3 - C_7 cycloalkyl, or heteroaryl each optionally substituted with at least one R^a group.

Claim 21 (New): A compound as claimed in claim 1, wherein Q^2 is aryl optionally substituted with at least one R^a group.

Claim 22 (New): A compound as claimed in claim 1, wherein Q is CH^2 , q is 1, 2, 3, or 4, r is 0, and Q^2 is aryl optionally substituted with at least one R^a group.

Claim 23 (New): A compound as claimed in claim 1, wherein Q is CH^2 , q is 1, 2, or 3, r is 0, and Q^2 is phenyl optionally substituted with at least one R^a group.

Claim 24 (New): A compound as claimed in claim 1, wherein Q is CH^2 , q is 2, r is 0, and Q^2 is phenyl optionally substituted with at least one R^a group.

Claim 25 (New) A compound as claimed in claim 1, wherein q is 0, r is 0, and Q^2 is aryl optionally substituted with at least one R^a group.

Claim 26 (New): A compound as claimed in claim 1, wherein q is 0, r is 0, and Q^2 is phenyl optionally substituted with at least one R^a group.

Claim 27 (New) A compound as claimed in claim 1, wherein q is 0, r is 0, and Q^2 is C_1 - C_6 alkyl optionally substituted with at least one R^a group.

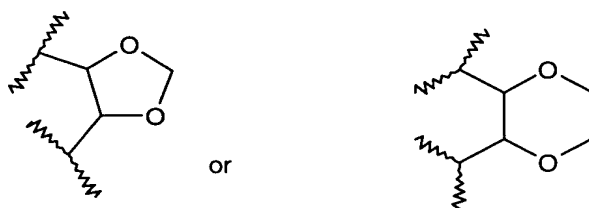
Claim 28 (New): A compound as claimed in claim 1, wherein m is 0, n is 1, and R^3 is $-H$ or C_1 - C_6 alkyl.

Claim 29 (New): A compound as claimed in claim 1, wherein m is 0, n is 1, and R^3 is $-H$ or methyl.

Claim 30 (New): A compound as claimed in claim 1, wherein m is 1, n is 0, and R^{3a} is -H or C_1-C_6 alkyl.

Claim 31 (New) A compound as claimed in claim 1, wherein m is 1, n is 0, and R^{3a} is -H or methyl.

Claim 32 (New): A compound as claimed in claim 1, wherein m is 1 and n is 1 and R^3 and R^{3a} together with the atoms to which they are attached form the optionally substituted fused ring



Claim 33 (New): A compound as claimed in claim 1, wherein R^4 is -NHS(O) $_2R^c$, wherein R^c is aryl or C_1-C_6 alkyl.

Claim 34 (New): A compound as claimed in claim 1, wherein R^c is phenyl, substituted phenyl or methyl.

Claim 35 (New): A compound as claimed in claim 1, wherein R^4 is -OH.

Claim 36 (New): A compound as claimed in claim 1, wherein R^4 is -N(R^b)R wherein R is -H, aryl or -OR^b and R^b is -H, C_1-C_6 alkyl, or C_1-C_6 alkenyl.

Claim 37 (New): A compound as claimed in claim 1, wherein R^5 is halo.

Claim 38 (New): A compound as claimed in claim 1, wherein R^5 is -Br.

Claim 39 (New): A compound as claimed in claim 1, wherein R^5 is -H.